



NO. 19 SECTION AA 1:200

EACH TANK TO CONTAIN 2 NO. STORAGE CHAMBERS. ONE (2/3 TOTAL CAPACITY) TO HAVE AN INLET SET AT +6.8M AOD. ONE (1/3 TOTAL CAPACITY) TO HAVE AN INLET SET AT +7.0M AOD.

LEVEL(M)	EXISTING FLOOD STORAGE (M3)	PROPOSED FLOOD STORAGE (M3)	NET GAIN / LOSS (M3)	CUMULATIVE GAIN / LOSS(M3)
5.0 - 5.2	0	0	0	0
5.2 - 5.4	5	5	+0	+0
5.4 - 5.6	207**	242**	+35	+35
5.6 - 5.8	147	166	+19	+54
5.8 - 6.0	162	172	+10	+64
6.0 - 6.2	172	177	+5	+69
6.2 - 6.4	176	177	+1	+70
6.4 - 6.6	176	177	+1	+71
6.6 - 6.8	176	177	+1	+72
6.8 - 7.0	176	178*	+2	+74
7.0 - 7.1	88	90*	+1	+76
TOTAL	1485	1561	76 (5% increase)	+76

\* Volume includes lower level storage tank, with inlet set to height of ground floor slab.

\*\* Volume includes additional volumes at lower levels that were not available for storage when flood levels were at a lower level

KEY	
	-CONTOUR WITH ASSOCIATED HEIGHT
	-ATTENUATION TANK
	-PROPOSED PERMEABLE CLOSE BOARDED FENCE

Drawing shows proposed site contours. Existing ground levels over site are detailed in drawing no. 2010/216 by XYZ Land Surveys (dated Sept 2010)

Flood storage analysis provided up to 1 in 100 annual probability plus allowance for climate change level of 7.1m AOD. Flood levels have been provided by Environment Agency (ref: SE21830, dated 28.02.11) from their Lower Thames (Reach 4) Modelling Study (see Flood Risk Assessment by Peter Brett Associates for further details).

Proposed flood storage at elevation of 6.8m AOD and above includes provision of storage within low level tanks.

Calculation of existing and proposed storage includes areas at lower level which are not hydraulically linked to floodplain. The 'level-for-level' gain/loss calculations and cumulative total stake the hydraulic connectivity into account.

Project <b>MELBOURNE ROAD, TEDDINGTON</b>		
Drawing <b>PROPOSED FLOOD STORAGE</b>		
Drawing No. <b>MR-14</b>	Scale <b>1:200 @ A3</b>	Date <b>22.11.2011</b>

**CLIVE CHAPMAN ARCHITECTS**  
SUSTAINABILITY CONSULTANTS  
4 EEL PIE ISLAND  
TWICKENHAM MIDDX  
TW1 3DY  
TELEPHONE 020 8891 4837  
FACSIMILE 020 8744 1152  
E MAIL CC@CCAR.CO.UK